MAGNETIC RESONANCE IMAGING WITH NESTED GRADIENT PULSES

Abstract of Disclosure

Disclosed herein is a system and method for decreasing gradient field pulse sequence duration and reducing peripheral nerve stimulation with known gradient pulse areas for a magnetic resonance imaging system. The method comprising: receiving a first desired area corresponding to a first pulse; obtaining a second desired area corresponding to a second pulse; selecting the first pulse as a nested pulse if the first desired area is smaller than the second desired area, and establishing the second pulse as a nesting pulse, otherwise selecting the second pulse as the nested pulse and establishing the first pulse as the nesting pulse. The method also includes: determining an amplitude and pulse duration for the nested pulse and ascertaining an amplitude and pulse duration for the nested pulse. Finally, the method includes arranging a plurality of gradient field pulse sequences to include the nested pulse and the nesting pulse.

Figures

... prof. perk plan turn perk turns plant. Prin perk perk att per perk turns to the turns turns turns turns to the turns turns turns turns turns to the turns turns to turns turns turns to turns turns turns turns to turns tur